

IN THE CLAIMS

1-22 (canceled)

23. (new) An optical pick-up comprising

a supporting shaft; and

a lens holder having a bearing part which fits on said supporting shaft rotatably;

wherein said lens holder is a resin injection molded product comprising a lens supporting part having a lens receiving surface, and said bearing part has a bearing surface disposed vertically to said lens receiving surface;

wherein said resin injection molded product comprises a gate at an end of said bearing part disposed at an opposite side of said lens receiving surface;

wherein said gate is disposed near a tip of the core pin and at a perimeter of said bearing part, and

wherein said gate is disposed between a cavity in a fixed template of an injection mold and a core pin for a bearing hole, said core pin is held in said cavity not in contacting any parts in the fixed template unconstrained, whereby said gate is disposed parallel to an inside perimeter of said bearing part and said bearing part has no weld line.

24. (new) An optical pick-up according to claim 23, wherein a plurality of said lens receiving surfaces are disposed.

25. (new) An optical pick-up according to claim 23, wherein said resin molded product is a liquid crystal resin composition or a polyphenylene ether resin composition.

26. (new) An optical pick-up according to claim 25, wherein said resin molded product comprises at least one of a fibrous filler and a flake filler, and has flexural elastic modulus of 10 GPa or more.

27. (new) An optical pick-up according to claim 26, wherein said fibrous filler is at least one selected from the group consisting of a whisker, a carbon fiber, and a glass fiber.

28. (new) An optical pick-up according to claim 26, wherein said flake filler is at least one selected from the group consisting of mica, talc, and graphite.

29. (new) An optical pick-up according to claim 23, wherein said supporting shaft comprises a ceramic.

30. (new) An optical pick-up according to claim 29, wherein said ceramic comprises zirconia.

31. (new) A lens holder for an optical pick-up comprising
a resin injection molded product comprising a lens supporting part having a lens receiving surface; and

a bearing part having a bearing surface disposed vertically to said lens receiving surface;

wherein said resin injection molded product is formed by injecting a resin from a gate disposed at an end of said bearing part disposed at an opposite side of said lens receiving surface,

wherein said gate is disposed near a tip of the core pin and at a perimeter of said bearing part; and

wherein said gate is disposed between the cavity in a fixed template of an injection mold and a core pin for a bearing hole, said core pin is held in said cavity not in contacting any parts in the fixed template unconstrained, whereby said gate is disposed parallel to an inside perimeter of said bearing part, and said bearing part has no weld line.

32. (new) An optical pick-up comprising

a supporting shaft; and

a lens holder having a bearing part which fits on said supporting shaft rotatably;

wherein said lens holder is a resin injection molded product comprising a lens supporting part that has a lens receiving surface, and said bearing part has a bearing surface disposed vertically to said lens receiving surface;

wherein said resin molded product comprises a gate at an end of said bearing part disposed at an opposite side of said lens receiving surface;

wherein said gate is disposed near a tip of the core pin and at a perimeter of said bearing part, and

wherein said gate is disposed between a cavity in a fixed template of an injection mold and a core pin for a bearing hole, a tip of said core pin is held without contacting any parts in said cavity in the fixed template unconstrained, whereby said gate is disposed parallel to an inside perimeter of said bearing part.

33. (new) A lens holder for an optical pick-up comprising a resin injection molded product comprising

a lens supporting part having a lens receiving surface; and

a bearing part having a bearing surface disposed vertically to said lens receiving surface;

wherein said resin injection molded product is formed by injecting a resin from a gate disposed at an end of said bearing part disposed at an opposite side of said lens receiving surface;

wherein said gate is near a tip of the core pin and at a perimeter of a bearing part; and

wherein said gate is disposed between a cavity in a fixed template of an injection mold and a core pin for a bearing hole, a tip of said core pin is held without contacting any parts in said cavity in the fixed template unconstrained, whereby said gate is disposed parallel to an inside perimeter of said bearing part.